

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently Amended): A service providing server for executing service providing processing in response to a service providing request from one of a plurality of ~~[[an]]~~ information processing apparatuses, each information processing apparatus having a reading unit for accessing information recording media each having an information recording medium ID apparatus, comprising ~~characterized by having:~~

a data reception section ~~which receives~~ configured to receive a service request, ~~accompanied by~~ an information recording medium ID and a service ID ~~[[,]]~~ from ~~the an~~ information processing apparatus;

a storage section ~~which stores~~ configured to store service providing situation data ~~for each of the information recording medium IDs as service management data~~ for each of title-unique values corresponding to titles of content stored on the information recording media; and

a data processing section ~~which executes processing of verifying~~ configured to verify the information recording medium ID received via the data reception section, to acquire ~~acquires~~ a title-unique value on the basis of the information recording medium ID ~~on condition that~~ when the information recording medium ID is verified as valid ~~validated~~, to acquire ~~acquires~~ service providing situation data corresponding to the title-unique value from the storage section ~~to judge~~ which indicates whether or not a service ~~specified~~ requested by the service request including the information recording medium ID and the service ID is permitted based on the acquired service providing situation data ~~providable~~, and to execute ~~executes~~ the service providing processing corresponding to the service ~~on condition that~~ when the service is determined to be permitted ~~judged to be providable~~.

Claim 2 (Currently Amended): The service providing server according to Claim 1, wherein ~~characterized in that:~~

the data processing section is further configured to verify ~~execute the processing of~~ ~~verifying~~ the information recording medium ID ~~as processing of~~ by verifying signature data contained in the information recording medium ID, and to ~~execute the processing of~~ ~~acquiring~~ acquire, from the storage section, the service providing situation data corresponding to the title-unique value, ~~according to~~ the title-unique value contained in the information recording medium ID[[,]] or ~~the title-unique value calculated by executing a~~ ~~calculation~~ based on data contained in the information recording medium ID.

Claim 3 (Currently Amended): The service providing server according to Claim 1, wherein ~~characterized in that:~~

~~the service providing server has the storage section which stores~~ is further configured to store a revocation list ~~being~~ including a list of unauthorized information recording medium IDs; and

the data processing section ~~the processing of verifying~~ is further configured to verify the information recording medium ID in the data processing section ~~is executed as processing~~ ~~of~~ by comparing the information recording medium ID received from the information processing apparatus with the unauthorized information recording medium IDs ~~recorded~~ included in the revocation list.

Claim 4 (Currently Amended): The service providing server according to Claim 1, wherein ~~characterized in that:~~

the information recording medium ID ~~is configured to include~~ includes a title-unique value corresponding to a title of content stored in an information recording medium[[,]] and

signature data generated on the basis of a secret key of a management apparatus ~~and the~~
signature data differing for each of the information recording media; and

the data processing section is further configured to ~~execute the processing of verifying~~
verify the information recording medium ID ~~as processing of~~ by generating a message to
which a public key of the management apparatus is applied, ~~for comparison and comparing~~
the message with the signature data contained in the information recording medium ID[[,]]
and ~~also execute the processing of acquiring~~ to acquire the service providing situation data
corresponding to the title-unique value contained in the information recording medium ID[[,]]
from the storage section.

Claim 5 (Currently Amended): The service providing server according to Claim 1,
wherein characterized in that:

the information recording medium ID includes:

a prime number $p(w)$ ~~set determined based on~~ in response to each of a number
W of information recording media manufactured; and

data IDKey(w) ~~calculated by a calculation~~ based on the prime number $p(w)$
and the title-unique value; and

the data processing section is further configured to ~~execute processing of judging~~
judge whether or not data contained in the information recording medium ID is the prime
number, as the ID verifying processing, ~~and also to~~ to calculate the title-unique value from the
data IDKey(w) contained in the information recording medium ID, and ~~acquiring~~ to acquire
the service providing situation data corresponding to the title-unique value calculated[[,]]
from the storage section.

Claim 6 (Currently Amended): An information processing apparatus for ~~executing~~ transmitting a service providing request to a service providing server, further comprising ~~characterized by having~~:

a recording medium interface configured to access ~~which executes processing of~~ ~~accessing~~ an information recording medium; and

a data processing section ~~which executes processing of verifying~~ configured to verify an information recording medium ID read from the information recording medium via the recording medium interface, and ~~executes processing of transmitting~~ transmit the information recording medium ID to the service providing server ~~on condition that~~ when the information recording medium ID is verified as valid ~~validated~~.

Claim 7 (Currently Amended): The information processing apparatus according to Claim 6, ~~characterized in that~~ wherein:

the data processing section is further configured to ~~execute the processing of verifying~~ verify the information recording medium ID ~~as processing of by~~ verifying signature data contained in the information recording medium ID.

Claim 8 (Currently Amended): The information processing apparatus according to Claim 6, ~~characterized in that~~ wherein:

the data processing section verifies ~~the processing of verifying~~ the information recording medium ID ~~in the data processing section is configured as processing of by~~ acquiring a revocation list ~~being~~ having a list of unauthorized information recording medium IDs from a storage section or the information recording medium ~~[[,]]~~ and comparing the information recording medium ID received from the information processing apparatus with

the unauthorized information recording medium IDs ~~recorded~~ included in the revocation list ~~acquired~~.

Claim 9 (Currently Amended): The information processing apparatus according to Claim 6, ~~characterized in that~~ wherein:

the information recording medium ID includes a title-unique value corresponding to a title of content stored on the information recording medium[[,]] and signature data generated on the basis of a secret key of a management apparatus, the signature data ~~and~~ differing for each ~~of the~~ information recording medium ~~media~~; and

the data processing section is further configured to ~~execute the processing of verifying~~ verify the information recording medium ID ~~as processing of~~ by generating a message to which a public key of the management apparatus is applied, ~~for comparison and comparing~~ the message with the signature data contained in the information recording medium ID.

Claim 10 (Currently Amended): The information processing apparatus according to Claim 6, ~~characterized in that~~ wherein:

the information recording medium ID includes:

a prime number $p(w)$ ~~set in response to each of~~ determined based on a number W of information recording media manufactured; and

data $IDKey(w)$ calculated ~~by a calculation~~ based on the prime number $p(w)$ and a title-unique value; and

the data processing section is further configured to ~~execute processing of~~ verify the information recording medium ID by judging whether or not data contained in the information recording medium ID is the prime number[[,]] ~~as the ID-verifying processing~~.

Claim 11 (Currently Amended): A data processing method for executing service providing processing in response to a service providing request from an information processing apparatus, comprising ~~characterized by having:~~

~~a data reception step of~~ receiving a service request accompanied by an information recording medium ID and a service ID_{[[,]]} from the information processing apparatus; and

~~a data processing step of executing processing of~~ verifying the information recording medium ID received_{[[,]]}

acquiring a title-unique value on the basis of the information recording medium ID ~~on condition that~~ when the information recording medium ID is verified as valid ~~validated~~_;

acquiring service providing situation data corresponding to the title-unique value ~~acquired~~, from a storage section, ~~storing the~~ service providing situation data ~~for each of the information recording medium IDs as service management data~~ including data for each of title-unique values corresponding to titles of content stored on information recording media_;

judging whether or not a service ~~specified~~ requested by the service request including the information recording medium ID and the service ID is permitted based on the acquired service providing situation data ~~providable~~_; and

executing the service providing processing ~~on condition that~~ when the service is determined to be permitted ~~judged to be providable~~.

Claim 12 (Currently Amended): The data processing method according to Claim 11, ~~characterized in that~~ further comprising:

~~the data processing step is configured to include a step of executing the processing of~~ verifying the information recording medium ID ~~as processing of~~ by verifying signature data contained in the information recording medium ID_{[[,]]} and

~~executing processing of~~ acquiring, from the storage section, the service providing situation data corresponding to the title-unique value, according to the title-unique value contained in the information recording medium ID[[,]] ~~or the title-unique value~~ calculated by executing a calculation based on data contained in the information recording medium ID.

Claim 13 (Currently Amended): The data processing method according to Claim 11, ~~characterized in that~~ further comprising:

~~the processing of verifying the information recording medium ID in the data processing step is configured to include a step of executing it as processing of~~
verifying the information recording medium ID by comparing the information recording medium ID received from the information processing apparatus with unauthorized information recording medium IDs recorded in a revocation list ~~being a list of unauthorized information recording medium IDs.~~

Claim 14 (Currently Amended): The data processing method according to Claim 11, ~~characterized in that~~ wherein:

the information recording medium ID ~~is configured to include~~ includes a title-unique value corresponding to a title of content stored on [[the]] a corresponding information recording medium[[,]] and signature data generated on the basis of a secret key of a management apparatus, the signature data ~~and~~ differing for each ~~of the~~ information recording medium media; and

~~the data processing step is configured to include a step of executing the processing of~~
the data processing method further comprises verifying the information recording medium ID ~~as processing of~~ by generating a message to which a public key of the management apparatus is applied, ~~for comparison~~;

comparing the message with the signature data contained in the information recording medium ID; ~~and~~[[,]] ~~and also~~

~~executing the processing of~~ acquiring the service providing situation data corresponding to the title-unique value contained in the information recording medium ID[[,]] from the storage section.

Claim 15 (Currently Amended): The data processing method according to Claim 11, ~~characterized in that~~ wherein:

the information recording medium ID includes:

a prime number $p(w)$ ~~set in response to each of~~ determined based on a number W of information recording media manufactured; and

data $IDKey(w)$ ~~calculated by a calculation~~ based on the prime number $p(w)$ and the title-unique value; and

the data processing method further comprises ~~the data processing step is~~ configured to include a step of ~~executing processing of~~

judging whether or not data contained in the information recording medium ID is the prime number as the ID verifying processing, ~~and also~~

calculating the title-unique value from the data $IDKey(w)$ contained in the information recording medium ID, and

acquiring the service providing situation data corresponding to the title-unique value calculated[[,]] from the storage section.

Claim 16 (Currently Amended): A data processing method for executing a service providing request to a service providing server, ~~characterized by having~~ comprising:

~~a recording medium accessing step of executing processing of~~ accessing an information recording medium via a recording medium interface; ~~and~~
~~a data processing step of executing processing of~~ verifying an information recording medium ID read from the information recording medium via the recording medium interface[[,]]; and
~~executing processing of~~ transmitting the information recording medium ID to the service providing server ~~on condition that~~ when the information recording medium ID is verified to be valid ~~validated~~.

Claim 17 (Currently Amended): The data processing method according to Claim 16, further comprising ~~characterized in that~~:

~~the data processing step is configured to execute the processing of~~ verifying the information recording medium ID ~~as processing of~~ by verifying signature data contained in the information recording medium ID.

Claim 18 (Currently Amended): The data processing method according to Claim 16, further comprising ~~characterized in that~~:

~~the processing of~~ verifying the information recording medium ID ~~in the data processing step is configured to include a step of~~ by acquiring a revocation list ~~being~~ including a list of unauthorized information recording medium IDs from a storage section or the information recording medium[[,]] and comparing the information recording medium ID received from the information processing apparatus with the unauthorized information recording medium IDs ~~recorded~~ included in the revocation list ~~acquired~~.

Claim 19 (Currently Amended): The data processing method according to Claim 16, ~~characterized in that~~ wherein:

the information recording medium ID ~~is configured to include~~ includes a title-unique value corresponding to a title of content stored on ~~[[the]]~~ a corresponding information recording medium~~[[,]]~~ and signature data generated on the basis of a secret key of a management apparatus, the signature data and differing for each ~~of the~~ information recording medium ~~media~~; and

~~the data processing step is configured to include a step of executing the processing of~~ the data processing method further comprises verifying the information recording medium ID ~~as processing of~~ by generating a message to which a public key of the management apparatus is applied, ~~for comparison~~

comparing the message with the signature data contained in the information recording medium ID.

Claim 20 (Currently Amended): The data processing method according to Claim 16, ~~characterized in that~~ wherein:

the information recording medium ID includes:

a prime number $p(w)$ ~~set in response to each of~~ determined based on a number W of information recording media manufactured; and

data $ID_{Key}(w)$ calculated ~~by a calculation~~ based on the prime number $p(w)$ and a title-unique value; and

the data processing method further comprises ~~the data processing step is~~ configured to include a step of executing processing of

~~executing processing of~~ verifying the information recording medium ID by judging whether or not data contained in the information recording medium ID is the prime number ~~[[,]] as the ID verifying processing.~~

Claim 21 (Currently Amended): A computer readable storage medium having stored thereon a program for executing a data processing method for executing service providing processing in response to a service providing request from an information processing apparatus, comprising ~~characterized by having:~~

~~a data reception step of~~ receiving a service request accompanied by an information recording medium ID and a service ID~~[[,]]~~ from the information processing apparatus; and

~~a data processing step of executing processing of~~ verifying the information recording medium ID received;~~[[,]]~~

acquiring a title-unique value on the basis of the information recording medium ID ~~on condition that~~ when the information recording medium ID is verified as valid ~~validated;~~;

acquiring service providing situation data corresponding to the title-unique value from a storage section, storing the service providing situation data ~~for each of the information recording medium IDs as service management data~~ including data for each of title-unique values corresponding to titles of content stored on information recording media~~[[,]]~~;

judging whether or not a service ~~specified~~ requested by the service request including the information recording medium ID and the service ID is permitted based on the acquired service providing situation data ~~providable;~~; and executing the service providing processing ~~on condition that~~ when the service is determined to be permitted ~~judged to be providable.~~

Claim 22 (Currently Amended): A computer readable storage medium having stored thereon a program for executing a data processing method for executing a service providing request to a service providing server, comprising ~~eharacterized by having:~~

~~a recording medium accessing step of executing processing of~~ accessing an information recording medium via a recording medium interface; ~~and~~

~~a data processing step of executing processing of~~ verifying an information recording medium ID read from the information recording medium via the recording medium interface[[,]]; and

~~executing processing of~~ transmitting the information recording medium ID to the service providing server ~~on condition that~~ when the information recording medium ID is verified to be valid ~~validated~~.